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CLAIMS 1-59 CANCELED

60. A method for fabricating an array comprising the steps of:

forming a plurality of insulating media having a plurality of wavelength and polarizing elements embedded therein at an angle relative to the surfaces of said media such that the spacing between elements halves for each different medium in said plurality of said media,

forming a phase shifter arrangement such that a portions thereof of conductive material are disposed on one of said surfaces of said media in registry with every other element in each of said media and other portions of which of conductive material are disposed on another of said surfaces overlapping all of said elements, and, a phase shifting material disposed over at least said every other element

stacking said plurality of media such that the topmost insulating medium has two elements and each succeeding medium has twice as many elements as a preceding medium.

61. A method according to claim 60 wherein the steps of forming a plurality of insulating media includes the steps of:

stacking alternating layers of an insulating material and a wavelength and polarization sensitive material the thickness of said layers of insulating material determining the spacing between said elements, and

slicing said layers at an angle to form said plurality of insulating media with said elements embedded therein.

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62. A method according to claim 60 wherein the steps of forming a phase shifter arrangement include the steps of:

depositing transparent, conductive layers on said surfaces of said insulating media,
forming said portions of said conductive material on said one of said surfaces of each of said media by photolithography,
affixing a spacer of insulating material about the periphery of said one of said surfaces of each of said media, and
introducing a phase shifting material over said one of said surfaces of each of said media.

63. A method according to claim 60 further including the step of sealing the topmost of said media with a layer of insulating material.

64. A method according to claim 60 wherein said insulating media are made of SiO_2 .

65. A method according to claim 60 wherein said insulating media are made of optically transparent layers.

66. A method according to claim 60 wherein said elements are made of cholesteric liquid crystal material.

67. A method according to claim 60 wherein said angle is 45° .

68. A method according to claim 60 wherein said conductive material is indium tin oxide.

69. A method according to claim 62 wherein said phase shifting material is in liquid form.

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70. A method according to claim 62 wherein said phase shifting material is a liquid crystal.

71. A method according to claim 62 wherein said phase shifting material is a solid state electro-optic material.